

**Chaminade University of Honolulu, Fall 2013**  
**CH 103-30-2 COLELGE CHEMISTRY I**  
**Syllabus**

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**Instructor:** Mr. William F. Bow

**Office:** Chaminade Campus, Henry 1

**Class Date/Time:** Monday 5:30 PM - 9:40 PM, Tripler Army Medical Center, Room TAMC

**Phone:** 808-371-0676

**Office Hours:** by appointment

**Email:** [william.bow@adjunct.chaminade.edu](mailto:william.bow@adjunct.chaminade.edu)

**Required Materials:**

- Textbook: Timberlake & Timberlake, *Basic Chemistry*, 4th Ed. Prentice Hall, 2013.
- Scientific calculator.
- Access to Online: TBA

**Course Description:**

A one semester (3 credit) introduction to chemistry for students who wish to strengthen their understanding of basic concepts in chemistry before beginning the general chemistry sequence or for students working towards associate degrees. Emphasis will be placed on problem solving. Topics covered will include: chemical measurements, properties of atoms and molecules, chemical reactions, chemical calculations, acids and bases, properties of gases and thermochemistry. *Concurrent registration in CH 103L required. Prerequisites: MA 103.*

**Course Objectives:**

This course is designed to familiarize you with the concepts of chemistry that may be used as a basis for other more intensive courses in other science fields.

**Homework:**

Homework problems from each chapter will be assigned (in-class or online) and done on paper which can be turned in. They will be due in class on specified dates (to be announced). The homework is only graded for effort/completion, not for accuracy.

**Worksheets:**

There will be multiple worksheets handed out this semester (usually in class). You are encouraged to work in groups to complete them and understand the material covered. Worksheets turned in late will not be accepted for a grade. An answer key will be posted.

**Midterm Exams:**

There will be two midterm exams given this semester (worth 40% of your overall grade). Each exam will be worth 20% of your overall grade and you will be responsible for all lecture material covered up to the exam dates. These exams are tentatively scheduled to be taken on **April 28, and May 19**. More information about these exams will be given in class.

**Quizzes:** There will be quizzes given this semester and taken in class or online. The dates of each

quiz will be announced at least one lecture prior. Online quizzes will be based on chapter readings before beginning new sections. In-class quizzes will cover chapter material and will generally be given after a homework assignment is due; *these quizzes will be based on the homework.*

**Final Exam:**

The final exam is scheduled for **Monday, June 16**. This exam will be cumulative, covering all of the material presented in class over the semester.

**Attendance:**

If you miss a lecture, please send me an email or leave a phone message explaining your absence. If you miss a quiz or midterm exam, a written explanation should be turned in or you will receive a score of zero. Any student who does not take the final exam will fail the course.

**Student Conduct:**

Please refer to the Student Handbook for the CUH policies on Classroom Behavior and Academic Dishonesty.

**Music Devices and Cell phones:**

Unless specifically allowed by the instructor, the use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes at Chaminade. It can be discourteous and may lead to suspicion of academic misconduct. Students who cannot comply with this rule will be asked to leave class. Please refer any questions to the Dean of Natural Sciences and Mathematics.

**ADA Accommodations:**

Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from the CUH Counseling Center (Dr. June Yasuhara; phone 735-4845) by the end of week three of the class, in order for the instructor to plan accordingly. Failure to provide written documentation will prevent your instructor from making the necessary accommodations.

Please refer any questions to the Dean of Students and review the procedures at [http://www.chaminade.edu/student\\_life/sss/counseling\\_services.php](http://www.chaminade.edu/student_life/sss/counseling_services.php).

**Opportunities for Help:**

If you need assistance with the material for this course, please contact me. There are also chemistry tutors available at the Academic Achievement Program on campus.

**Course Grades:**

The course grades will be based on the following weighted percentages and grading scale. Any changes will be announced in class.

Worksheets/Homework	5%
Quizzes	10%
Midterm Exams	50% (25% each exam)
Final Exam	35%

GRADE	FINAL PERCENTAGE
A	90-100 %
B	80-89 %
C	65-79 %
D	45-64 %
Fail	below 45 %

### **Tentative Class Schedule and Important Dates**

- Lecture 1 (Apr 7): Chapter 1 Chemistry in Our Lives  
Chapter 2 Measurements  
Chapter 3 Matter and Energy
- Lecture 2 (Apr 14): *Quiz 1: Chapters 2 and 3*  
Chapter 4 Atoms and Elements  
Chapter 5 Electronic Structure and Periodic Trends
- Lecture 3 (Apr 21): *Quiz 2: Chapters 4 and 5*  
Chapter 6 Inorganic and Organic Compounds: Names and Formulas  
Chapter 7 Chemical Quantities
- Lecture 4 (Apr 28): **Midterm I:** Chapters 2, 3, 4, 5, 6, 7  
Chapter 8 Chemical Reactions of Inorganic and Organic Compounds
- Lecture 5 (May 5): *Quiz 3: Chapter 8*  
Chapter 9 Electronic Structure and Periodic Trends  
Chapter 10 Molecular Structure: Solids and Liquids
- Lecture 6 (May 12): *Quiz 4: Chapter 9 and 10*  
Chapter 11 Gases  
Chapter 12 Solutions
- Lecture 7 (May 19): **Midterm II:** Chapters 8, 9, 10, 11, 12
- Lecture 8 (May 26): Chapter 13 Chemical Equilibrium  
Chapter 14 Acids and Bases
- Lecture 9 (Jun 2): *Quiz 5: Chapter 13 and 14*  
Chapter 15 Oxidation-Reduction  
Chapter 16 Nuclear Radiation
- Lecture 10 (Jun 9): **Final Exam**

*Class schedule is subject to change and will be announced in class as needed.*